

## STRATEGIES UNDERWAY IN CALIFORNIA THAT REDUCE CLIMATE CHANGE EMISSIONS

Table 1 below lists climate change emission reduction strategies that are already underway in California. These strategies, when fully implemented, significantly reduce greenhouse gas emissions in the state. The strategies will bring California approximately one-third of the way towards meeting the 2010 target and half way towards 2020 target.

### Strategies Already Underway in California

TABLE 1		GHG Savings <sup>1</sup> (Million Tons CO <sub>2</sub> Equivalent)	
Agency Responsible	Strategies		
<b>Air Resources Board</b>			
	Vehicle Climate Change Standards	1	30
	Diesel Anti-idling	1	2
<b>Public Utilities Commission</b>			
	Accelerated Renewable Portfolio Std (33% by 2020)	5	11
	California Solar Initiative	0.4	3
	Investor Owned Utility Energy Efficiency Programs <sup>2</sup>	4	8.8
<b>Integrated Waste Management Board</b>			
	Achieve 50% Statewide Recycling Goal	3	3
<b>Energy Commission</b>			
	Building Energy Efficiency Standards	1	2
	Appliance Energy Efficiency Standards	3	5
	Fuel-efficient Replacement Tires & Inflation Programs <sup>4</sup>	1.5	1.5
<b>State and Consumer Services/CalEPA</b>			
	Green Buildings Initiative	0.5	1.8
<b>Air Resources Board/CalEPA</b>			
	Hydrogen Highway	Not yet estimated	
<b>Total Potential Emission Reductions<sup>3</sup></b>		<b>22</b>	<b>68</b>

1 These are approximations that best reflect our current knowledge given a committed and coordinated effort with strong state leadership in partnership with industry.

2 Through 2013.

3 Rounding may cause this number to be slightly different than the sum of the numbers for each strategy.

4 Estimated reductions to be revised Summer 2006

## Summary Descriptions for Each Strategy

### **Vehicle Climate Change Standards**

Emissions savings from implementation of vehicle climate change regulations are based on August 2004 ARB Staff Report.

### **Diesel Anti-Idling**

Reduced idling times and use of truck stop electrification can reduce diesel use in trucks by about 4%, with significant air quality benefits.

### **Accelerated Renewable Portfolio STD (33% by 2020)**

20% of electricity sold by 2010 and 33% by 2020 would be generated from renewable resources.

### **California Solar Initiative**

Incentive programs to encourage residential and commercial solar installations.

### **Investor Owned Utility Energy Efficiency Programs**

Programs to achieve electricity and natural gas energy conservation goals through 2013 as established by the Public Utilities Commission.

### **Achieve 50% Statewide Recycling Goal**

Achieving the State's 50% recycling goal will reduce climate change emissions associated with energy-intensive material extraction and production, as well as methane emissions from landfills.

### **Building Energy Efficiency Standards**

Energy efficiency standards adopted for new buildings adopted by the California Energy Commission in 2003, effective 2005

### **Appliance Energy Efficiency Standards**

Energy efficiency standards adopted for appliances by the California Energy Commission in 2004, effective 2006.

### **Fuel-Efficient Replacement Tires & Inflation Programs**

Initiatives and education programs to encourage the purchase of low-rolling resistance tires and to maintain adequate tire pressure can reduce climate change emission.

### **Green Buildings Initiative**

Incentives or further building standards can encourage designs with significantly lower energy use and other sustainability benefits. Long-term savings potential could be significant.

### **Hydrogen Vehicles**

Hydrogen fuel cell vehicles and stationary applications may offer major emissions savings after 2020, especially if hydrogen is produced from low climate change emission sources.